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CENTRAL FAX CENTER

IN THE CLAIMS

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Claims 1 – 6 are currently pending in the present application. Amended claim 1 and the associated dependent claims are presented for consideration. Claims 7-20 have been withdrawn from further consideration pursuant to the election filed on 02/02/2007. In accordance with 37 CFR 1.121, a complete listing of the claims is provided.

1. (Once Amended) An apparatus for measuring the content of water in an emulsion including hydrocarbons and water, the apparatus comprising:

a conduit through which the emulsion may flow from a first point to a second point;

at least one measurement device <u>configured</u> selected to measure density and capacitance of the emulsion within the conduit to generate a density value and a capacitance value; and

a computing device <u>configured for eapable of receiving the density value and the capacitance value from the at lease one measurement device, and the computing device being <u>configured</u> for the <u>purpose of determining</u> the content of water in the emulsion through the application of a refractive index <u>in relation to the capacitance value and the density value</u>.</u>

- 2. (Cancelled) An apparatus for measuring the content of water according to claim 1 wherein the emulsion is a mixture of unrefined oil and water.
- 3. (Once amended) An apparatus for measuring the content of water according to claim 1 wherein the at least one measurement device further is selected configured to measure temperature of the emulsion within the conduit to generate a temperature value.
- 4. (Original) An apparatus for measuring the content of water in hydrocarbons according to claim 1 wherein the conduit is a pipe for conveying oil at a storage facility.

- 5. (Once Amended) An apparatus for measuring the content of water in hydrocarbons according to claim 1 elaim 4 wherein the conduit comprises a pipe extending extends between a truck and a holding tank whereby the emulsion is off-loaded from the truck into the holding tank.
- 6. (Once Amended) An apparatus for measuring the content of water in hydrocarbons according to claim 1 wherein the at least one measurement device is a capacitance device eapable of deriving configured to determine a capacitance value.